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PTO SB 021 (08-00)

Approved for use through 10/31/2002 OMB 0651-0032  
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# TRANSMITTAL FORM

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Total Number of Pages in This Submission 10

|                        |                     |
|------------------------|---------------------|
| Application Number     | 09/625,710          |
| Filing Date            | July 25, 2000       |
| First Named Inventor   | Alfred E. Keller    |
| Group Art Unit         | 1764                |
| D Rudnick              | T. Vanoy            |
| Attorney Docket Number | 1856-00301 (98/003) |

## ENCLOSURES (check all that apply)

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☒ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/  
Incomplete Application
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under 37 CFR 1.52 or 1.53

- ☐ Assignment  
(for an application)
- ☐ Drawing(s)
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- ☐ After Allowance Communication  
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(Appeal Notice, Brief, Reply Brief)
- ☐ Proprietary Information
- ☐ Status Letter
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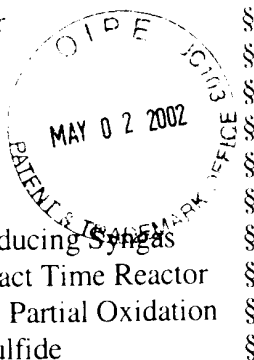
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Alfred E. Keller

APP. NO.: 09/625,710

FILED: July 25, 2000

FOR: Process for Producing Syngas  
In a Short Contact Time Reactor  
Using Catalytic Partial Oxidation  
of Hydrogen Sulfide



GROUP ART UNIT: 1764

EXAMINER: D. W. Rudnick

Atty Dkt. No. 1856-00301(98/003)

Date: April 22, 2002

RESPONSE TO OFFICE ACTION DATED FEBRUARY 4, 2002

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Commissioner for Patents  
Washington, DC 20231

Sir:

Applicants acknowledge receipt of the Office Action dated February 4, 2002 in the above-identified matter. In response, Applicants request consideration of the following amendments and remarks.

AMENDMENTS

In the Claims:

Please cancel claims 1-7, 13 and 18-20, without prejudice.

Please amend claims 8 and 9 to read, respectively, as follows:

8. (Amended) A system for the partial oxidation of light hydrocarbons and the partial oxidation of H<sub>2</sub>S, comprising a hydrocarbon injection line, an H<sub>2</sub>S injection line in communication with said hydrocarbon injection line, an oxygen injection line in communication with said hydrocarbon injection line, a reaction zone receiving gases from said hydrocarbon, H<sub>2</sub>S and oxygen injection lines and including a catalyst suitable for catalyzing the partial oxidation of said hydrocarbon and the partial oxidation of H<sub>2</sub>S to form CO, H<sub>2</sub>, elemental sulfur and H<sub>2</sub>O.

9. (Amended) The system according to claim 8 comprising a mixing zone upstream of said reaction zone, said mixing zone adapted for receiving said hydrocarbon, H<sub>2</sub>S, and oxygen gases.

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